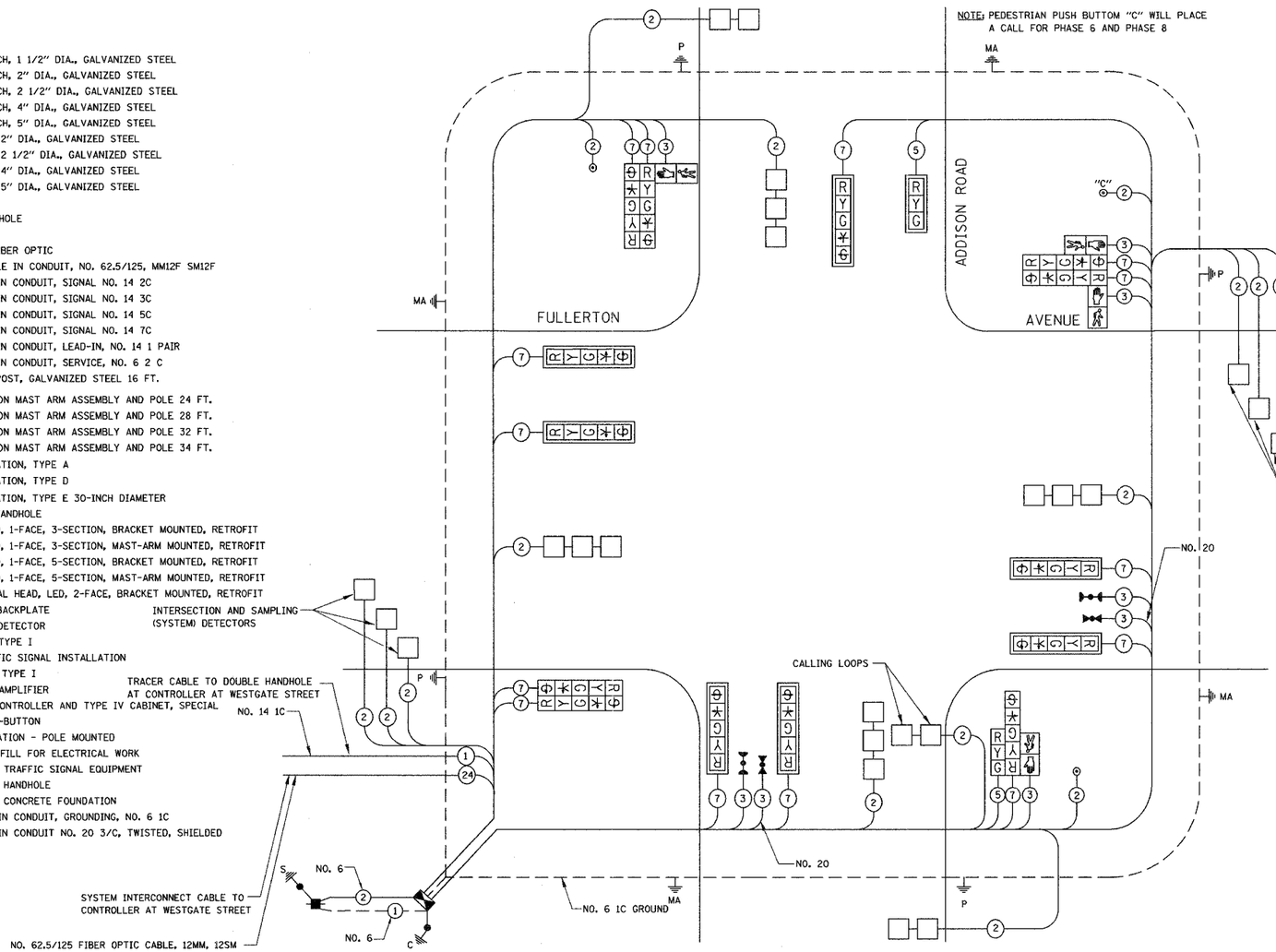
FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1380	00-00083-00-PV	DuPAGE	94	38
STA.		TO STA.		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

83676

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
29	FOOT	CONDUIT IN TRENCH, 1 1/2" DIA., GALVANIZED STEEL
1615	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
74	FOOT	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL
42	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
16	FOOT	CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL
485	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
820	FOOT	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL
172	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
84	FOOT	CONDUIT PUSHED, 5" DIA., GALVANIZED STEEL
9	EACH	HANDHOLE
4	EACH	HEAVY-DUTY HANDHOLE
1	EACH	DOUBLE HANDHOLE
1	EACH	TRANSCEIVER - FIBER OPTIC
776	FOOT	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F
549	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
837	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
451	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
2265	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
2197	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
58	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 24 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 28 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.
16	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE D
60	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
2	EACH	DRILL EXISTING HANDHOLE
1	EACH	SIGNAL HEAD ,LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD ,LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED, RETROFIT
7	EACH	SIGNAL HEAD ,LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT
7	EACH	SIGNAL HEAD ,LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED, RETROFIT
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED, RETROFIT
8	EACH	TRAFFIC SIGNAL BACKPLATE
13	EACH	INDUCTIVE LOOP DETECTOR
536	FOOT	DETECTOR LOOP, TYPE I
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
2	EACH	LIGHT DETECTOR, TYPE I
1	EACH	LIGHT DETECTOR AMPLIFIER
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
3	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	SERVICE INSTALLATION - POLE MOUNTED
4296	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
12	EACH	REMOVE EXISTING HANDHOLE
9	EACH	REMOVE EXISTING CONCRETE FOUNDATION
490	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
527	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED



CABLE PLAN

CABLE PLAN LEGEND

EXISTING	PROPOSED	
R	R	8" TRAFFIC SIGNAL SECTION
R	R	12" TRAFFIC SIGNAL SECTION
W "E"	W	12" PEDESTRIAN SIGNAL SECTION
"E"		12" PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
"E"		VEHICLE DETECTOR, INDUCTION LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
"E"		PUSHBUTTON DETECTOR
(2)	(2)	DENOTES NUMBER OF CONDUCTORS ALL CABLE NO. 14 EXCEPT AS INDICATED ALL LOOP DETECTOR CABLE TO BE SHIELDED
R Y G "E"	R Y G	SIGNAL FACE WITH BACKPLATE "P" INDICATES PROGRAMMED HEAD "E" INDICATES EXISTING SIGNAL HEAD OR EXISTING PEDESTRIAN SIGNAL HEAD
"P"	"P"	

(1)	NO. 14 1C TRACER CABLE
(24)	FIBER OPTIC CABLE NO. 62.5/125 12F MULTIMODE AND 12F SINGLE MODE
	GROUND ROD ¾"
	GROUND CABLE, NO. 6 1C
C	CONTROLLER
H	HANDHOLE
MA	MAST ARM
P	POST
S	SERVICE

"IDOT TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS"

TYPE	NO. LAMPS	WATTAGE- LED	% OPERATION	TOTAL WATTAGE
SIGNAL-				
RED	16	17	0.5	136
YELLOW	16	25	0.25	100
GREEN	16	15	0.25	60
				0
ARROW	28	12	0.1	34
PED SIGNAL	4	25	1	100
CONTROLLER	1	100	1	100
ILLUM SIGN			0.05	0
FLASHER			0.5	0
			TOTAL=	530

ENERGY COSTS TO: VILLAGE OF ADDISON

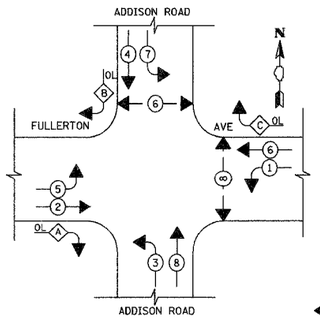
ENERGY SUPPLY CONTACT: MS. KIM GARLAND
PHONE: (630) 424-5705
COMPANY: COMMONWEALTH EDISON

FOUNDATION (DEPTH)	m (FT)	CABLE SLACK- HORIZONTAL	m (FT)	CABLE SLACK- VERTICAL	m (FT)
TYPE A- POST	1.2 (4)	HANDHOLE	2.0 (6.5)	ALL FOUNDATIONS	1.0 (3.5)
TYPE D- CONTROLLER	1.2 (4)	DOUBLE HANDHOLE	4.0 (13)	MAST ARM (L) POLE	6m+L-0.6m=
TYPE E- MAST ARM POLE (30')	4.6 (15)	SIGNAL POST	2.0 (1.0)		(20'+L-2')=
		CONTROLLER CABINET	0.5 (1.0)	BRACKET MOUNTED	4.0 (13.0)
		FIBER OPTIC	4.0 (13)	PEDESTRIAN PUSH BUTTON	1.2 (4.0)
		ELECTRIC SERVICE	0.5 (1.0)	ELECTRIC SERVICE	4.1 (13.5)
		GROUND CABLE	0.5 (1.0)	SERVICE TO GROUND	4.1 (13.5)
				POST MOUNTED	1.8 (6.0)

NOTES:

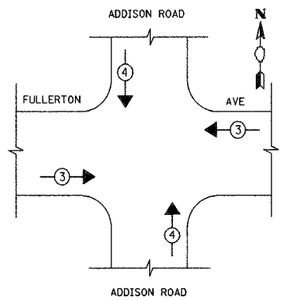
1. THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT, SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.
2. EQUIPMENT GROUND CONDUCTOR (GREEN COLOR CODED) SPLICE TO FRAME AND COVER IS REQUIRED FOR ALL HANDHOLES OR DOUBLE HANDHOLES THAT CARRY SIGNAL CABLES AND SERVICE CABLES.
3. THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	⇄	⇅

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3
B	=	4	+	5
C	=	6	+	7

LEGEND

- DUAL ENTRY PHASE
- OL OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

CABLE PLAN
SCHEDULE OF QUANTITIES
SEQUENCE OF OPERATIONS

FULLERTON AVENUE AND ADDISON ROAD

DATE: 07-18-03
DRAWN BY: SRS
CHECKED BY: SRF

SCALE: NONE